

**BASIS FOR THE AMENDMENT**

New Claims 32-25 have been added as supported at page 14 of the specification as originally filed.

No new matter is believed to have been added by entry of this amendment. Entry and favorable reconsideration are respectfully requested.

Upon entry of this amendment Claims 2-20, 23 and 24, 27-35 will now be active in this application. Claims 5-8 and 13-16 stand withdrawn from consideration.

**REMARKS**

Applicants respectfully request reconsideration of the application, as amended, in view of the following remarks.

**The only independent claims are Claims 23 and 24.** Claim 9-12 and 17-20 depend indirectly on independent Claim 23.

The objection to Claims 9-12 is traversed. Claims 9-12 depend on Claim 5.

Claim 5 is still pending even though it is withdrawn from consideration. Thus, this objection should be withdrawn.

In **Claims 23 and 24** the fibers consist of polyvinyl alcohol. **New Claims 32-35** have been added.

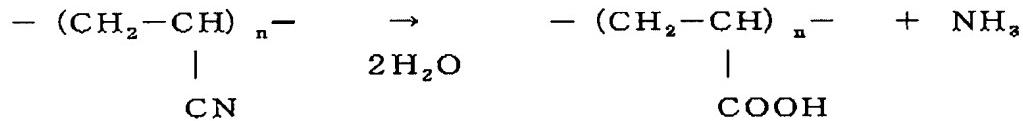
Since Claim 9-12 depend indirectly on independent Claim 23 and Claim 23 was not rejected as being anticipated by Toray, it is believed that the rejection of Claims 9-11 as being anticipated over Toray was issued in error. Similarly, Claims 17-19 depend indirectly on Claim 23 and it is believed that the rejection of Claims 9-11 as being anticipated over Toray was issued in error. The dependent claims cannot be anticipated if the independent claims is not anticipated. Thus, this rejection should be withdrawn.

Similarly, the rejections of the dependent claims over Toray and Ohmory should be withdrawn and Toray, Ohmory and Howard as the independent claims 23 and 24 were rejected over Toray and Ueda and not over Toray and Ohmory should be withdrawn and Toray, Ohmory and Howard.

In independent Claims 23 and 24 the fibers consist of polyvinyl alcohol. New Claims 32-35 have been added.

In contrast, in Toray, a blend of polyvinyl alcohol, polyacrylonitrile and acrylonitrile vinyl alcohol graft copolymer is dissolved in a solvent and spun and drawn to give fibers. Thus, the claimed polyvinyl alcohol fibers of the present invention cannot be anticipated by the fibers containing a polymer blend as disclosed in Toray.

Toray discloses the use of acrylonitrile which is detrimental to the hydrolysis resistance of the fibers of Toray.



However, the claimed fibers of the present invention are hydrolysis resistant and hydrolysis as in the fibers of Toray does not occur.

Further, acrylonitrile is excluded from Claims 23 and 24 due to the use of "consisting of". Since Toray uses acrylonitrile, it teaches away from the use of hydrolysis resistant fibers. Moreover, Ueda discloses the use of water-soluble PVA fibers. Note that Ueda discloses underwater disintegrable fiber materials. See, for example, col. 1, lines 50 to col. 2, line 19. Thus, even the combination of Ueda with Toray cannot result in or render obvious the present invention.

In addition, the properties claimed in new Claims 32-35 are not disclosed or suggested by the combination of Ueda with Toray.

**Howard** does not cure the defects of the combination of Ueda with Toray.

Further, the examples in the specification show that excellent fibrillability, hydrophobicity, chemical resistance and wiping potency are obtained using the claimed fiber of the present invention. Table 1 below is copied from page 14 of the specification.

In support of the above argument Applicants previously provided JP 9059872 and a translation thereof (both filed by IDS). At page 7, paragraph [0049], Example 1, it is disclosed that acrylonitrile is hydrolyzed with sodium hydroxide. However, the Examples of the present invention show that the fibers of the present invention are resistant to sodium hydroxide. See Table 1 below “Chemical Resistance”. The “dissolution” is measured after dipping in sodium hydroxide for 8 hours and is very small. (See page 10, lines 9-15 of the specification for the experimental procedure for determining the dissolution in sodium hydroxide).

**Thus, the fibers of the present invention have a good hydrolysis resistance and are different from the fibers of Toray and the fibers of Ueda or a combination thereof.**

Table 1

	Cross-Sectional Profile	D (µm)	L/D	Fibrillability	Hydrophilicity	Chemical Resistance	Wiping Potency
				Microscopic Observation	Water-Absorbing Speed (mm/5 min)	Dissolution (%)	Residue after Wiping (%)
Example 1	flattened	3	15	good	124	<1	good
Example 2	flattened	3	21	good	128	<1	good
Example 3	flattened	3	25	good	123	<1	good
Comparative Example 1	flattened	3	4	not good	125	good	14.8
Comparative Example 2	cocoon-shaped	-	-	not good	111	good	not good
Comparative Example 3	rounding	-	-	good	98	not good	9.8

As stated at page 15, 1<sup>st</sup> paragraph of the specification:

The PVA fibers of the present invention may be readily split into single fibers, when having received shear force applied thereto. They can be readily fibrillated without compromising the physical properties such as the chemical resistance, the hydrophilicity the weather resistance and the tenacity thereof. The fibrillated fibers may be formed into dry-process or wet-process nonwoven fabrics. In addition, the dry-process and wet-process nonwoven fabrics formed of the fibrillated fibers of the present invention are superior to those formed of conventional fibrillated fibers in point of the water absorbability and the wiping potency thereof. Further, when the fibrillated PVA fibers of the present invention are sheeted along with a cement slurry, then they may form wet-process slates. When the fibers of the present invention are kneaded with plastic or rubber, then they may form plastic or rubber products reinforced with the fibrillated PVA fibers.

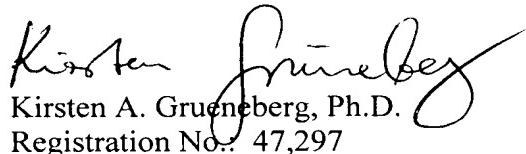
The excellent properties of the claimed PVA fibers having the claimed dimensions is not disclosed or suggested in Toray and Ueda and Howard.

Therefore, the rejection of the claims over Toray and Ueda and Howard are believed to be unsustainable as the present invention is neither anticipated nor obvious and withdrawal of this rejection is respectfully requested.

This application presents allowable subject matter, and the Examiner is kindly requested to pass it to issue. Should the Examiner have any questions regarding the claims or otherwise wish to discuss this case, he is kindly invited to contact Applicants' below-signed representative, who would be happy to provide any assistance deemed necessary in speeding this application to allowance.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.



Kirsten A. Grueneberg

Kirsten A. Grueneberg, Ph.D.  
Registration No.: 47,297

Customer Number  
**22850**

Tel: (703) 413-3000  
Fax: (703) 413 -2220  
NFO:KAG:  
(OSMMN 01/07)